

IN THE CLAIMS

1. (Currently Amended) An image display having a plurality of thin film transistors and a plurality of capacitors on a substrate, wherein

a plurality of gate-lines and a plurality of signal-lines which cross said plurality of gate-lines in a matrix shape are formed on said substrate,

each of said thin film transistors has: an island-shaped semiconductor layer having a source region, a drain region, and a channel region sandwiched between them; a first insulation film formed between said island-shaped semiconductor layer and a gate electrode of the same layer as that of said gate-lines; an interlayer insulation film formed above said island-shaped semiconductor layer; and a source electrode and a drain electrode which are come into contact with said source region and said drain region via an opening formed in said interlayer insulation film and which exist in the same layer as that of the signal-lines, and

each of said capacitors has: a storage electrode of the same layer as that of said gate-lines; a second insulation film formed on said storage electrode so as to be in contact therewith; and an electrode which is formed on said second insulation film so as to be in contact therewith via an

opening formed in said interlayer insulation film and which exists in the same layer as that of said signal-lines,  
said first insulation film being formed so as to cover  
said substrate, and patterning of said second insulation film  
being formed so as to be in contact with an upper surface  
~~nonexistent between said first insulation film and said~~  
~~interlayer insulation film except for upper surfaces and side~~  
surfaces of ~~said gate electrode and~~ said storage electrode  
and an upper surface of said first insulation film.

2. (Original) A display according to claim 1, wherein relative permittivity of said second insulation film is higher than that of said first insulation film, and an etching rate of said second insulation film is lower than that of said first insulation film.

3. (Original) A display according to claim 1, wherein said second insulation film is an oxide film of said storage electrode.

4. (Original) A display according to claim 1, wherein said second insulation film is formed in an upper portion and a side portion of said gate electrode.

5. (Original) A display according to claim 1, wherein said first insulation film and said second insulation film are made of a same high dielectric constant material.

6. (Original) A display according to claim 1, wherein said first insulation film is a laminate film of a silicon oxide film and a high dielectric constant film.

7. (Original) A display according to claim 1, wherein said capacitor is a parallel capacitor comprising:

a first capacitor constructed by said island-shaped semiconductor layer, said first insulation film, and said storage electrode; and

a second capacitor constructed by said storage electrode, said second insulation film which is formed on said storage electrode and whose relative permittivity is higher than that of said first insulation film, and said electrode which is directly formed on said second insulation film and which exists in the same layer as that of said signal-lines.

8. (Original) A display according to claim 1, wherein a frame memory constructed by a capacitor and a switch is formed on said substrate in order to temporarily store image data.

9. (Original) A display according to claim 8, wherein said frame memory is provided in a pixel.

10. (Original) A display according to claim 1, wherein said island-shaped semiconductor layer is an island-shaped polysilicon layer.

11. (Previously Amended) An image display having a plurality of thin film transistors and a plurality of capacitors on a substrate, wherein  
a plurality of gate-lines and a plurality of signal-lines which cross said plurality of gate-lines in a matrix shape are formed on said substrate,

each of said thin film transistors has: an island-shaped semiconductor layer having a source region, a drain region, and a channel region sandwiched between them; a first insulation film formed between said island-shaped semiconductor layer and a gate electrode of the same layer as that of said gate-lines; an interlayer insulation film formed

above said island-shaped semiconductor layer; and a source electrode and a drain electrode which are come into contact with said source region and said drain region via an opening formed in said interlayer insulation film and which exist in the same layer as that of the signal-lines, and

each of said capacitors has: a storage electrode of the same layer as that of said gate-lines; a second insulation film formed in contact with said storage electrode, an upper surface of said interlayer insulation film, and a side surface of the opening formed in said interlayer insulation film; and an electrode which is formed on said second insulation film so as to be in contact therewith and which exists in the same layer as that of said signal-lines.

12. (Original) A display according to claim 11, wherein relative permittivity of said second insulation film is higher than that of said first insulation film.

13. (Original) A display according to claim 11, wherein said second insulation film is an insulation film made of an organic material.

14. (Currently Amended) A manufacturing method of an image display, comprising the steps of:

forming a plurality of island-shaped semiconductor layers onto a substrate;

forming a first insulation film onto said island-shaped semiconductor layers;

forming a gate electrode and a storage electrode onto said first insulation film;

forming a source region, a drain region, and a channel region sandwiched between them onto said island-shaped semiconductor layers;

forming a second insulation film onto said storage electrode;

patterning said second insulation film, and etching only  
said second insulation film except for an upper surfaces and  
side surfaces of said gate~~storage~~ electrode and an upper  
surface of said storage electrode~~first insulation film~~;

forming interlayer insulation films onto regions above  
said gate electrode and said storage electrode;

simultaneously removing said interlayer insulation film  
of a contact hole portion and said interlayer insulation film  
above said storage electrode; and

simultaneously forming an electrode on said second insulation film and a source electrode and a drain electrode which are connected to said source region and said drain region.

15. (Original) A method according to claim 14, wherein said second insulation film is formed to an upper portion and a side portion of said gate electrode simultaneously with said step of forming the second insulation film onto said storage electrode.

16. (New) A display according to claim 11, wherein each of said capacitors is a parallelly-connected capacitor consisting of a first capacitor and a second capacitor,

said first capacitor is formed by said island-shaped semiconductor layer, said first insulation film and said storage electrode, and

said second capacitor is formed by said storage electrode, said second insulation film and an electrode which is formed on said second insulation film so as to be in contact therewith and which exists in the same layer as that of said signal-lines.